



SWDBS PRODUCT BROCHURE

single wall deep bed scrubber unit

SINGLE BLOWER

THE BION DEEP BED SCRUBBER UNIT with a single blower is great for environments with high levels of corrosion and contaminants at low to mid airflow ranges. It's a versatile unit with a common installation outside of the protected environment, providing clean, pressurized air inside control rooms with electronic equipment.

MAIN APPLICATIONS

- Pulp and Paper Mills
- Petrochemical Plants
- Refineries
- Foundries
- Steel Mills
- Laboratories
- Hospitals/IVF Centers
- Museums
- Computer, Control and Motor Control Rooms
- Electrical and Medical Equipment Rooms

TARGETED GASES

Hydrogen Sulfide, Sulfur Dioxide, Nitrogen Oxides (NO_x), Chlorine, Chlorine Dioxide, Ammonia, Formaldehyde, Acetic Acid and Organic Acids, Mercaptanes, BTX, Hydrocarbons, VSC's, VOC's.

CONSTRUCTION

BION's standard single blower DBS units are manufactured of 304 Stainless Steel and a welded, single wall construction - providing maximum durability, ideal for outdoor installations. The standard models range from 1 to 10ft [305 to 3,048mm] tall nominal and 2 to 10ft [610 to 3,048mm] wide nominal to offer a variety of sizing options.

MEDIA

At the center of BION's DBS Units is BION engineered, dry-chemical air filtration media - bulk filled within the unit. A wide variety of media types are available, each designed to target specific odors, air pollutants and corrosive gases. BION is happy to assist in selecting the most efficient media prescription to meet your particular needs.

KEY CHARACTERISTICS

- Replaceable prefilters and final filters for easy maintenance.
- Standard and customizable configurations available, including multiple materials/finishes, pre and final filter options, and up to four passes of BION chemical media to target numerous particulate and contaminant challenges.
- Single wall construction provides a robust and weatherproof design.
- Gasketed doors for an airtight seal.
- Aluminum extruded track with pile seal ensures easy filter installation, as well as a tight seal to prevent by-pass at each stage.
- Accessible top fill chutes and side clean out ports streamline media maintenance.

BION SUPPORT

BION offers numerous services including unit sizing and media selection, technical support, media life analysis testing as well as environmental corrosion classification testing.



STANDARD SWDBS MODELS - single blower		Nominal Unit Width - ft [mm]				
		2 [610]	4 [1219]	6 [1829]	8 [2438]	10 [3048]
Nominal Unit Height - ft [mm]	1 [305]					
	2 [610]	400 CFM (680 m ³ /h) 5 ft ³ (0,142 m ³)				
	3 [914]	600 CFM (1.019 m ³ /h) 7 ft ³ (0,198 m ³)	1,200 CFM (2.039 m ³ /h) 14 ft ³ (0,396 m ³)			
	4 [1219]	800 CFM (1.359 m ³ /h) 9 ft ³ (0,255 m ³)	1,600 CFM (2.718 m ³ /h) 18 ft ³ (0,51 m ³)			
	5 [1524]		2,000 CFM (3.398 m ³ /h) 22 ft ³ (0,623 m ³)	3,000 CFM (5.097 m ³ /h) 33 ft ³ (0,934 m ³)		
	6 [1829]		2,400 CFM (4.078 m ³ /h) 26 ft ³ (0,736 m ³)	3,600 CFM (6.116 m ³ /h) 39 ft ³ (1,104 m ³)	4,800 CFM (8.155 m ³ /h) 52 ft ³ (1,472 m ³)	
	7 [2134]			4,200 CFM (7.136 m ³ /h) 45 ft ³ (1,274 m ³)	5,600 CFM (9.514 m ³ /h) 60 ft ³ (1,699 m ³)	
	8 [2438]				6,400 CFM (10.874 m ³ /h) 68 ft ³ (1,926 m ³)	
	9 [2743]				7,200 CFM (12.333 m ³ /h) 76 ft ³ (2,152 m ³)	9,000 CFM (15.291 m ³ /h) 95 ft ³ (2,690 m ³)
	10 [3048]					10,000 CFM (16.990 m ³ /h) 105 ft ³ (2,973 m ³)

***BOLD Denotes Unit Airflow: CFM (m³/h).
 ***Italic Denotes Media Volume per individual Media Pass: ft³ (m³)

STANDARD FEATURES

- 304 Stainless steel, single wall construction - mill finish
- Gasketed doors
- 2" [48mm] prefilter (Merv 8 [USA] or G4 [EU])
- Two bulk filled media passes with project specific BION chemical filtration media
- 4" [98mm] final filter (Merv 13 [USA] or F7 [EU])
- Draw through configuration
- One centrifugal, direct drive blower with a TEFC [USA] or IP55 [EU] motor
- VFD and door mounted keypad within blower section
- Magnehelic differential pressure gauges across the pre and final filter stages
- Top fill chutes and side clean out ports

OPTIONAL FEATURES

- One to four passes of BION Media
- Additional materials of construction = aluminum, 316 stainless steel, and galvanized steel
- Explosion proof [USA] or ATEX [EU] motor
- Inlet/outlet transitions
- Redundant blowers with backdraft dampers
- Passive configuration
- Blow through configuration
- Painted finish
- Inlet mist eliminator
- Rain louver with birdscreen

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